CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)

An ISO 9001-2015 Certified Company

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QC ABSTRACT

l Work: 'Repair and Renovation to Samudaya Building at JP Colony in ward no-05 Yelahanka New Town Sub ', BBMP, Bangalore.

Item	Quantity As Per BOQ	Required No's of testes as per frequency	Actual No's of testes as per frequency	Testes Resuts
1:3:6	2.88 Cum	1	1	Pass
Steel	438.48 Kgs	1	1	Pass
Slab - 100mm	69.66 sqm	1	1	Pass
CC Blocks	21.80 Sqm	1	1	Pass
M25	6.26 Cum	2	3	Pass
Vetrified Tiles	48.01 Sqm	1	1	Pass

Cubes

0-5 Cum	1Set
6-15 Cum	2Set
16-30 Cum	3Set
31-50 Cum	4Set

Add 1set for extra 50Cum

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vika Nilaya, Opp. Widia Poorna Prajna School,
ayout, Nagar

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Job No.: CACE/BBMP/AC/W.No.05/2022-23 Date: 15.02.2023

TEST REPORT

CLIENT	:	**Assistant Executive Engineer**, Yelahanka New Town Sub division, BBMP, Bangalore.
AGENCY	:	**Sri Akhilesh C** , Contractor, Bangalore.
NAME OF THE WORK	:	'Repair and Renovation to Samudaya Building at JP Colony in ward no-05 Yelahanka New Town Sub division", BBMP, Bangalore.
SAMPLE ID	:	Cement (Zuari OPC 53 Grade)
DATE OF MANUFACTURE		January - 2023
DATE OF TESTING		13.02.2023 to 15.02.2023

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269-2015
1	a) Initial Setting Time	IS-4031 (Part -5)	135 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	355 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	29.50 %	-

Note:

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Job No.: CACE/BBMP/AC/W.No.05/2022-23

Date :15.02.2023

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Assistant Executive Engineer, Yelahanka New Town Sub division, BBMP, Bangalore.**

Agency : **Sri Akhilesh C , Contractor, Bangalore.**

Name of Work : 'Repair and Renovation to Samudaya Building at JP Colony in ward no-05 Yelahanka New Town Sub division'', BBMP, Bangalore.

Date of Testing :15.02.2023

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : Sand

Total Wt. of Aggregates in gms 1000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	78	7.80	7.80	92.2	90-100
2.36	141	14.10	21.90	78.1	75-100
1.18	159	15.90	37.80	62.2	55-90
600 Micron	163	16.30	54.10	45.9	35-59
300 Micron	245	24.50	78.60	21.4	8-30
150 Micron	159	15.90	94.50	5.5	0-10

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Job No.: CACE/BBMP/AC/W.No.05/2022-23

Date : 15.02.2023

TEST REPORT ON FINE AGGREGATES (SAND)

IS 2116-1980

Client : **Assistant Executive Engineer, Yelahanka New Town Sub division, BBMP, Bangalore.**

Agency : **Sri Akhilesh C , Contractor, Bangalore.**

Name of Work : 'Repair and Renovation to Samudaya Building at JP Colony in ward no-05 Yelahanka New Town Sub division", BBMP, Bangalore.

Date of Testing : 15.02.2023

Material : Sand - Masonry

Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	29	2.90	2.90	97.1	90-100
1.18	72	7.20	10.10	89.9	70-100
600 Micron	124	12.40	22.50	77.5	40-100
300 Micron	251	25.10	47.60	52.4	5-70
150 Micron	506	50.60	98.20	1.8	0-15

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Job No.: CACE/BBMP/AC/W.No.05/2022-23

Date 15.02.2023

TEST REPORT ON FINE AGGREGATES (SAND)
IS 1542-1992

: **Assistant Executive Engineer, Yelahanka New Town Sub division, BBMP, Bangalore.**

: **Sri Akhilesh C , Contractor, Bangalore.**

: 'Repair and Renovation to Samudaya Building at JP Colony in ward no-05 Yelahanka New Town Sub division", BBMP, Bangalore.

of Testing 15.02.2023

: Plastering Sand

Total wt. of aggregates in gms = 1000

Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 1542-1992
10	0	0	0	100	100
4.75	21	2.10	2.10	97.9	95-100
2.36	35	3.50	5.60	94.4	95-100
1.18	59	5.90	11.50	88.5	90-100
600 Micron	72	7.20	18.70	81.3	80-100
300 Micron	249	24.90	43.60	56.4	20-65
150 Micron	515	51.50	95.10	4.9	0-15

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Job No.: CACE/BBMP/AC/W.No.05/2022-23

Date :15.02.2023

TEST REPORT ON COARSE AGGREGATES

lient : **Assistant Executive Engineer, Yelahanka New Town Sub division, BBMP, Bangalore.**

gency : **Sri Akhilesh C , Contractor, Bangalore.**

lame of Work : 'Repair and Renovation to Samudaya Building at JP Colony in ward no-05 Yelahanka New Town Sub division", BBMP, Bangalore.

)ate of Testing :15.02.2023

S Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= 5000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	195	3.9	3.9	96.1	95-100
10	2513	50 3	54.2	45.8	25-55
4.75	1972	39.4	93.6	6.4	0-10

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CACE/BBMP/AC/W.No.05/2023-24

Date: 14.03.2023

PRECAST SLAB 100mm Thick(CORE) TEST REPORT

	:	: Assistant Executive Engineer, Yelahanka New Town Sub division, BBMP,
ctor	:	: Sri Akhilesh C , Contractor, Bangalore.
of Work	:	: 'Repair and Renovation to Samudaya Building at JP Colony in ward no-05 Yelahanka New Town Sub division", BBMP, Bangalore.
ample Tested	:	03
Testing	:	14.03.2023
ical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
of Concrete	:	M_{15}

	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
	50.00	80.00	0.376	2393.69	1.60	0.957	25.80	13.14	14.19	13.58	16.97
	50.00	81.00	0.382	2401.86	1.62	0.959	26.20	13.34	14.41	13.82	17.27
	50.00	82.00	0.395	2453.32	1.64	0.961	26.40	13.45	14.52	13.96	17.45

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Job No:- CACE/BBMP/AC/W.No.05/2023-24

Date 03.04.2023

TEST REPORT ON SOLID CONCRETE BLOCKS

Client : **Assistant Executive Engineer, Yelahanka New Town Sub division, BBMP, Bangalore.**

Agency : **Sri Akhilesh C , Contractor, Bangalore.**

Name of the Work : 'Repair and Renovation to Samudaya Building at JP Colony in ward no-05 Yelahanka New Town Sub division", BBMP, Bangalore.

Date of Testing 03.04.2023

Size of Blocks : 400mm x 150mm x 200mm

Cross Sectional Area : 60000 mm^2

Technical Reference : IS: 2185 (Part 1) - 2005

No. of Blocks Tested : 04

Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm^2)	Block Density in Kg/M^3	Requirement as per IS 2185 (Part 1) - 2005
1	Block 1	23.4	251.9	4.20	1950.00	Minimum required Compressive Strength of Individual Units 4 N/mm^2
2	Block 2	23.7	253.7	4.23	1975.00	
3	Block 3	23.9	254.2	4.24	1991.67	
4	Block 4	23.8	259.6	4.33	1983.33	

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III. STAIN RESISTANCE

Sl. No.	Measured Dimension (mm)	Visual observations	Requirement as per IS: 15622 (Reaffirmed 2006)
1	600 x 600 x 9.6	Stain Removed by Water	Class 1, min (13630 Part 8)
2	600 x 600 x 9.2	Stain Removed by Water	
3	600 x 600 x 9.7	Stain Removed by Water	
4	600 x 600 x 9.8	Stain Removed by Water	
5	600 x 600 x 9.6	Stain Removed by Water	

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Job.No:C.CACE/BBMP/CP/W.No.18/2022-23

Date: 06.03 2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Yelahanka New Town Sub division, BBMP, Bangalore.**

Agency : **Sri Akhilesh C , Contractor, Bangalore.**

Name of Work : 'Repair and Renovation to Samudaya Building at JP Colony in ward no-05 Yelahanka New Town Sub division", BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	27.02.2023	06.03.2023	8.140	398.3	17.70
2	27.02.2023	06.03.2023	8.159	405.1	18.00
3	27.02.2023	06.03.2023	8.164	408.7	18.16

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Job.No:C.CACE/BBMP/CP/W.No.18/2022-23

Date: 27.03.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Yelahanka New Town Sub division, BBMP, Bangalore.**

Agency : **Sri Akhilesh C , Contractor, Bangalore.**

Name of Work : "Repair and Renovation to Samudaya Building at JP Colony in ward no-05 Yelahanka New Town Sub division", BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	27.02.2023	27.03.2023	8.204	603.5	26.82
2	27.02.2023	27.03.2023	8.218	607.4	27.00
3	27.02.2023	27.03.2023	8.211	608.9	27.06

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Lab.No:C.CACE/BBMP/CP/W.No.18/2022-23

Date: 14.03.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Assistant Executive Engineer, Yelahanka New Town Sub division, BBMP, Bangalore.**
Agency	**: Sri Akhilesh C , Contractor, Bangalore.**
Name of Work	: 'Repair and Renovation to Samudaya Building at JP Colony in ward no-05 Yelahanka New Town Sub division", BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{25}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	07.03.2023	14.03.2023	8.149	391.5	17.40
2	07.03.2023	14.03.2023	8.155	396.7	17.63
3	07.03.2023	14.03.2023	8.161	399.2	17.74

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Job.No:CACE/BBMP/AC/W.No.05/2022-23

Date: 20.03.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Yelahanka New Town Sub division, BBMP, Bangalore.**

Agency : **Sri Akhilesh C , Contractor, Bangalore.**

Name of Work : "Repair and Renovation to Samudaya Building at JP Colony in ward no-05 Yelahanka New Town Sub division", BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	13.03.2023	20.03.2023	8.105	396.9	17.64
2	13.03.2023	20.03.2023	8.112	397.5	17.67
3	13.03.2023	20.03.2023	8.137	398.3	17.70

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